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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/611,431	07/02/2003	Paul Brantner	48469-00005	1436	
23767	7590 01/19/2005		EXAMINER		
	GATES ELLIS & ROU	BUDD, MARK OSBORNE			
	ORK AVENUE, NW, SI ON, DC 20006	OTTE 300	ART UNIT	PAPER NUMBER	
	,		2834		
			DATE MAILED: 01/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTOL-326 (R		tion Summary Par	t of Paper No./Mail Date 20050112			
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	4)				
Attachment	t(s) e of References Cited (PTO-892)	4) T (-t)	(DTO 440)			
Attach	Vol					
* See the attached detailed Office action for a list of the certified copies not received.						
	application from the International Bureau (PCT Rule 17.2(a)).					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	2. Certified copies of the priority documents have been received in Application No					
	1. Certified copies of the priority documents have been received.					
_	a) ☐ All b) ☐ Some * c) ☐ None of:					
12) 🗌 .	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
Priority u	ınder 35 U.S.C. § 119					
			AGGOT OF TORITE TO-102.			
11)	The oath or declaration is objected to by the Ex					
	Replacement drawing sheet(s) including the correction					
10)⊠ The drawing(s) filed on <u>02 July 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
9) The specification is objected to by the Examiner.						
	•					
Applicati	ion Papers	•				
8)	Claim(s) are subject to restriction and/or	r election requirement.				
	7)⊠ Claim(s) <u>5,6,28 and 29</u> is/are objected to.					
6)□	6)☐ Claim(s) is/are rejected.					
	Claim(s) is/are allowed.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
4)🖂	Claim(s) 1-45 is/are pending in the application.					
Disposit	ion of Claims					
		n parte Quayre, 1900 G.D. 11, 45	00 O.G. 210.			
پر⊸ ا	closed in accordance with the practice under E	•				
· ·	Since this application is in condition for allowar		secution as to the morite is			
		_· action is non-final.				
1)	Responsive to communication(s) filed on					
Status			1			
- Exte after - If the - If NC - Failu Any	MAILING DATE OF THIS COMMUNICATION. unsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply by period for reply is specified above, the maximum statutory period v ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day; will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	will be considered timely. the mailing date of this communication. D (35 U.S.C. & 133).			
A SH	ORTENED STATUTORY PERIOD FOR REPLY	Y IS SET TO EXPIRE <u>3</u> MONTH(S) FROM			
Period fo	or Reply		•			
	The MAILING DATE of this communication app	Mark Budd	2834			
	,	Examiner	Art Unit			
	Office Action Summary	10/611,431	BRANTNER ET AL.			
		Application No.	Applicant(s)			

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7-27 and 30-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Radziemski in view of Oberlin.

Radziemsky (figs. 5-7) teaches multiple piezoelectric elements subjected to a common force (#210) to generate an electrical output. Each piezo element has its own rectification circuit and its own capacitor. A blocking diode #378 is provided at the output to protect the device from reverse voltages.

It is not explicitly clear whether the piezoelectric elements (#205) are configured in a stacked or multi-layered configuration although it is explicitly taught that they are subject to the same force. Oberlin (see abstract) does explicitly advocate the use of multiple (stacked) layers of piezoelectric material for use in a generator to increase capacitance and reduce energy loss during energy transition. Thus for at least this reason it would have been obvious to one of ordinary skill in the art to provide Radziemsky with stacked piezo elements. Regarding clam 2, note #380 (fig. 5, Radziemsky). Regarding claim 7, see Radziemsky (abstract). Regarding clams 8-22, the phraseology" wherein said apparatus is optimized for ----" is merely stating a desired result or function without any commiserate structure to perform the function. As such, this language has not been given patentable weight.

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Claims 5, 6, 28 and 29 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The drawings are objected to for not showing the subject matter of clams 5, 6, 28 or 29. Correction is required.

Further cited of interest are Kimura, Tgakahashi, Hawkins (figs. 5 and 6), Triplett, Focht, Kolm and Carroll.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark O. Budd whose telephone number is (571)272-2019. The examiner can normally be reached on Monday-Thursday from 6am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez, can be reached on ***. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Budd/ds